

ABSTRACT OF THE DISCLOSURE

5 The present invention relates to a spreading code  
synchronization method and others for implementing fast  
cell search during entry of a mobile station into a  
soft handover mode in an intercell asynchronous system.  
10 In the spreading code synchronization method according  
to the present invention, a correlation is first  
detected between a received signal and a common short  
code, and a received timing of a scrambling code mask  
of a handover destination cell is detected based  
thereon. At this time, in order to avoid reception of  
a signal transmitted from a connecting cell, a received  
15 timing of a mask symbol from the connecting cell is  
excepted from a search range for the received timing of  
the scrambling code mask of the handover destination  
cell. The spreading code synchronization method  
further includes steps of detecting for each of  
20 scrambling code candidates a correlation between the  
received signal and a code of a product of a scrambling  
code and a common short code at the received timing of  
the scrambling code mask of the handover destination  
cell detected, and identifying the scrambling code of  
the signal transmitted from the handover destination  
cell, from magnitudes of correlation values.